

ABSTRACT OF THE DISCLOSURE

A low-noise liquid distribution system for delivering a liquid to a user on demand includes a reservoir and a tank oriented in an inverted position over the reservoir for distributing liquid from the tank to the reservoir. A vent tube has an inlet end that is located outside of the tank and an outlet end that is located in the tank above the liquid level. With this arrangement, when an opening of the tank and the vent tube are at, or immersed below, a level of liquid in the reservoir, the liquid is held within the tank by a combination of vacuum pressure acting on the liquid in the tank and atmospheric pressure acting on the liquid in the reservoir. However, when at least the vent tube is above the level of liquid in the reservoir, the vacuum within the tank is broken as air travels into the tank by way of the vent tube. Accordingly, liquid in the tank is delivered to the reservoir without the formation of air bubbles and their associated noise.

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